

LAB Group Work Conservation of Mass**Question** Is mass conserved during a chemical reaction?**Procedure**

1. Measure 60 milliliters of vinegar. Use one funnel to pour the vinegar into the plastic bottle.
2. Measure 3 grams of baking soda. Use the other funnel to pour the baking soda into the balloon.
3. Attach the balloon to the opening of the bottle. Do not let any baking soda fall into the bottle!
4. Use the balance to measure the mass of the bottle with the balloon attached. Record the mass.

Materials

- empty plastic water bottle
- baking soda
- 2 small funnels
- balance
- vinegar
- balloon
- 100-mL graduated cylinder

5. Take the bottle off the balance. Carefully dump the baking soda into the bottle. Hold on to the opening of the balloon so it does not slip off the bottle. What do you observe?

6. Do not remove the balloon from the bottle. Put the bottle and balloon on the balance again. Measure the mass. Record the mass.

Analysis

1. What were the reactants in this chemical reaction? _____

2. **Compare** the mass before and after you dumped the baking soda into the vinegar.
